

# **GDAAC Notes for MODIS Technical Team Meeting (7/23/98)**

## **WEEKLY HIGHLIGHTS:**

- Compiler 7.2 upgrade successfully completed
- PGE01-02 chain run repeatedly with 2 hr L0 data input
- Promotion of Drop 4 to Operations Mode (Ops) complete
- PGE08 (V2.1), PGE11, PGE17, PGE19 integrated and successfully run in ECS PDPS
- Ocean Data Day workaround (ECS Production Rules available early 1999)
  - + June 8 meeting addressed feasibility; work-around too manually intensive to be feasible
  - + ECS Production Rules scheduled for DAAC availability 1/99

## **WEEKLY PLAN:**

- Complete integration of PGE05 into the ECS.
- Complete regression testing of PGE07 (V2.1)
- Continue integration of PGEs 09, 10, 16 into the ECS.
- Complete PGE01-02-03 chain test with 2 hr L0 data input.

## **WORK IN PROGRESS AND FUTURE:**

- Production Rule information needed from SDST to complete integration of PGEs 09, 10, 16, 17, 19 (no delivery date established)
- Test data needed to establish benchmarks for L1, L2 processing; at a minimum 6 hours are needed (24 hours is preferable); 24 hours L0 data generation in progress, 2 hours received to date; additional data required to test Y2K compliance
- L1B Data volume increase (ESDIS impact assessment needed)
- SSIT Agreement updates (CCRs)
- MODIS-DAAC Science Agreement distributed to SDST and STMs for comment 6/98

## **ECS-SYSTEM**

**STATUS: YELLOW**

Problem: System installation, checkout and test procedures are maturing; documentation is being brought up to date. (Yellow).

- Drop 4.x in Test mode (TS2), in SSIT mode (TS1) and Operations mode (Ops).

## **MAPI / SDST TK**

**SSIT STATUS: GREEN**

- Lien established for Error List, work-off by 7/31/98.

## **OCEAN\_LIB**

**SSIT STATUS: YELLOW**

Problem: DAAC cannot promote PGE to operations without error list documentation, lien pending; resolution schedule pending SDST communication with algorithm developers.(Yellow)

- Delivered 4/15/98; Inspection complete; Build complete.

Production readiness

Work days for SSIT	Best Case	Nominal Case	Actual
Inspection	1	3	3 (n=11)
Integration I	2	5	6 (n=10)
Integration II	4	8-15	16 (n=7)
Patch	1-4	3-8	3 (n=14)
Error Testing	4	8	4 (n=2)
Chain Testing	8	15	8 (n=2)
Total	23	54	40 (was 42)

Best Case: Little or no problems with ECS or PGE

Nominal Case: Minor problems encountered and resolved; no major blunders

Actual: Averages to date

Phases of SSI&T:

**Inspection:** Delivered Algorithm Package is inspected for contents and completeness. PGE is inspected for documentation, formats, file structures, and standards compliance.

**Integration-I:** PGE is built and run from the command line. Generated data product(s) are verified with SDST supplied comparison file(s). (**DAACbuild** for a library)

**Integration-II:** PGE is registered into ECS, including population of PDPS database. Test data is inserted into the Data Server for staging into production. PGE execution is planned and scheduled through ECS PDPS utilizing Autosys scheduler. Generated product(s) inserted into Data Server. Generated data product is retrieved from Data Server for verification.

GSFC DAAC Launch Readiness

PGE Name	Delivered	Integrated	Chained	Duty Cycle	Ops Readiness	§	Launch Readiness*	Notes
PGE01 (2.1)	4/15/98	5/8/98	5/20/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98
PGE02 (2.0)	1/29/98	3/18/98	5/20/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98
PGE02 (2.1)								
PGE03	2/18/98	4/27/98	5/26/98	100%		G	expected	Lien, SDST to provide error list by 7/31/98
PGE04	3/20/98	5/28/98	7/31/98			Y	expected	Lien, SDST to provide error list by 8/31/98
PGE05	3/16/98	in progress	7/31/98			Y	expected	Lien, SDST to provide error list by 8/31/98
PGE11 (2.2)	1/7/98	6/8/98	8/7/98			G	expected	
PGE17	4/17/98	7/21/98	8/7/98			Y	expected	Lien pending, SDST to provide error list for launch readiness; PVL needed from SDST to verify integration
PGE19	4/17/98	7/22/98	8/7/98			Y	expected	Lien pending, SDST to provide error list for launch readiness; PVL needed from SDST to verify integration
PGE09	5/7/98	in progress	8/14/98			Y	expected	Lien pending, SDST to provide error list for launch readiness; PVL needed from SDST to complete integration
PGE12 (V2.1)	7/17/98					G	contingent	ECS to provide Land Tiling; Lien, SDST to provide error list by 9/30/98
PGE13 (V2.1)	7/20/98					G	contingent	ECS to provide Land Tiling; Lien, SDST to provide error list by 9/30/98
PGE14 (V2.1)	7/22/98					G	contingent	ECS to provide Land Tiling; Lien, SDST to provide error list by 10/31/98
PGE06	6/18/98	7/14/98	8/14/98				expected	Compiler upgrade complete; version 1.0 was successfully integrated
PGE07 (V2.1)	6/8/98	in progress				G	expected	Lien, SDST to provide error list by 8/31/98; V2.0 successfully integrated
PGE20								
PGE10	5/22/98	in progress				Y		Lien pending, SDST to provide error list for launch readiness; PVL needed from SDST to complete integration
PGE49								
PGE50								
PGE53								
PGE54								
PGE69								
PGE56								
PGE16	6/22/98	in progress				Y		Lien pending, SDST to provide error list for launch readiness; PVL needed from SDST to complete integration
PGE15 (V2.1)	6/12/98						contingent	ECS to provide Land Tiling; Lien, SDST to provide error list by 10/31/98
PGE08 (V2.1)	6/10/98	7/23/98				G	expected	Lien, SDST to provide error list by 8/31/98
*12/98 Launch <i>contingent</i> available if known high risk problems are addressed <i>expected</i> no known high risk obstacles for launch readiness <i>demonstrated</i> demonstrated through Ops Readiness Exercises (OREs)								
§ PGE Status Codes:								
Complete	PGE is ready to process data at launch in validation mode or ops mode							
Green	No problems or Category 1 fixes only; no high-risk liens on PGE							
Yellow	Problems in test, Category 2 or 3 fix pending; lien pending or expired							
Red	SSIT has stopped, PGE will not run in its current form; fix required before testing can continue							